

INTERNATIONAL SEARCH REPORT

 Int. Application No
 PCT/EP2004/052380

A. CLASSIFICATION OF SUBJECT MATTER

 IPC 7 F16C13/02 C23C2/00 F16C23/04 F16C33/10 F16C33/66
 F16C33/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16C C23C B05C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 549 393 A (MORANDO JORGE A) 27 August 1996 (1996-08-27) cited in the application column 2, line 59 - column 3, line 27; figure 3	1
Y	US 3 796 471 A (HOLM W) 12 March 1974 (1974-03-12) column 2, line 21 - line 48; figure 1	1
A	FR 771 406 A (NOMY AB) 8 October 1934 (1934-10-08) page 2, line 21 - line 37; figure 1 ----- -/--	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

26 January 2005

Date of mailing of the international search report

03/02/2005

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INTERNATIONAL SEARCH REPORT

 Int'l Application No
 PC1/EP2004/052380

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 12, 12 December 2002 (2002-12-12) -& JP 2002 241915 A (HITACHI METALS LTD), 28 August 2002 (2002-08-28) abstract figures 1,2	1
A	DE 195 11 943 A (DUMA MASCH ANLAGENBAU ; JABS RONALD (DE); PANNENBECKER H (DE)) 10 October 1996 (1996-10-10) the whole document	1,3
A	US 5 099 780 A (NAPPIER ROBERT W ET AL) 31 March 1992 (1992-03-31) column 3, line 42 - column 4, line 68; figures 3,4	1,3,4
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 03, 31 March 1999 (1999-03-31) -& JP 10 317119 A (SUZUKI TEKKOSHO:KK), 2 December 1998 (1998-12-02) abstract figures 2,4,5	2
A	US 6 065 876 A (YASHIRO TOSHINORI ET AL) 23 May 2000 (2000-05-23) column 2, line 59 - column 3, line 2; figures 2-4	2
A	US 5 072 689 A (OOKOUCHI TAKAHIKO ET AL) 17 December 1991 (1991-12-17) column 9, line 53 - line 66; figures 8,9	5
A	DE 42 07 034 A (EICH JOSEPH KG & PARTNER GMBH) 16 September 1993 (1993-09-16) column 5, line 13 - line 17; figures 1,2	5
A	US 2003/111779 A1 (MORANDO JORGE A) 19 June 2003 (2003-06-19) page 1, left-hand column, line 43 - line 47	6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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